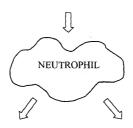


#### STIMULUS



#### OXIDATIVE BURST

$$O_2 \rightarrow O_2^{\overline{\bullet}} \rightarrow H_2O_2$$

- Hydrogen peroxide
- · Hydroxyl radical
- Singlet oxygen
- Oxygen-centered radicals



### MYELOPEROXIDASE

$$H_2O_2 + Cl^- + H^+ \rightarrow HOCl + H_2O$$

- · Hypochlorous acid
- Tyrosyl radical



## MICROBICIDICAL EFFECTS

# PRO-OXIDATIVE HOST EFFECTS

- · Oxidation of cellular lipids
- LDL oxidation / modification
- DNA oxidation / modification
- Protein oxidation / modification

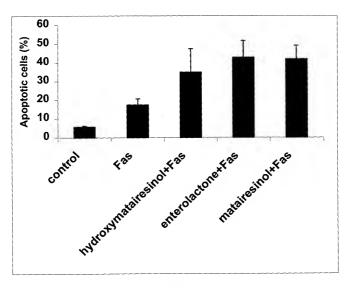


FIG. 2

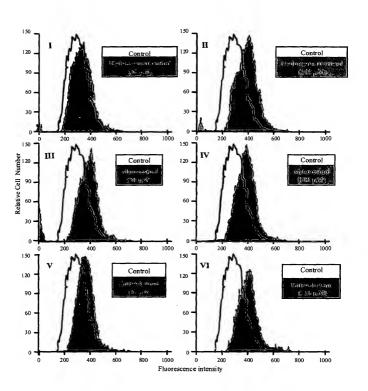


FIG. 3

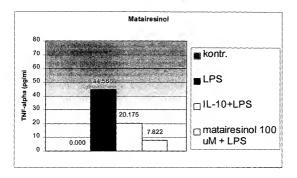


FIG. 4A

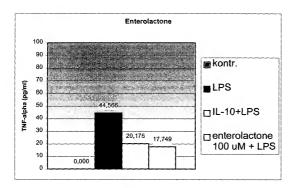


FIG. 4B